ROLLING BEARING

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Abstract of **GB2258274**

In a rolling bearing, at least one of the races and rolling members is made of an alloy steel that has a residual austenite content (gamma R) of 20-45 vol% and which contains 1-3 wt% Cr, and Mo in an amount ranging from one third of the Cr addition to 2.0 wt%, with the carburized or carbonitrided rolling surface having the following range of Vickers hardness (Hv) in relation to the residual austenite content: -4.7 x (gamma R vol%) + 920 </= Hv </= -4.7 x (gamma R vol%) + 1,020 The rolling surfaces contain fine-grained carbides and carbonitrides of average particle size 0.5-1.5 mu m, and occupying 10-30% by area.

$$-4.7 \times (\gamma_R \text{ vol\%}) + 920 \leqq H_V \leqq -4.7 \times (\gamma_R \text{ vol\%}) + 1{,}020$$